

Alec Howard

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Technologies & Skills

Languages: Scientific Python (scikit learn, pandas, statsmodels, etc), SQL, R, bash, LaTeX

Data Visualization: Seaborn, Matplotlib, Tableau

Database Management: SQLite, MySQL, PostgreSQL

Big Data: AWS, Hadoop, Spark, Hive

Supervised / Unsupervised Machine Learning: Regularization with Lasso, Ridge, ElasticNet | Linear/Logistic Regression, kNN, Decision Trees, Bagging/Boosting Models | Model evaluation with ROC curve, cross-validation, bootstrapping, grid-search

Natural Language Processing: Tf-idf, Snowball

Education

University of Santa Cruz | Santa Cruz, California | July 2010 - July 2014

BS in Applied Mathematics, Psychology

Applied Mathematics: Multivariable Calculus, Linear Algebra, Real/Complex Analysis, Differential Equations,
Psychology: Statistics, Research Methods, Developmental Psych, Personality Assessment

General Assembly | San Francisco, California | April 2016 - July 2016

Experience

General Assembly | San Francisco, California | April 2016 - July 2016

Data Science Immersive Student: Finished numerous case studies with various datasets using data wrangling, machine learning, and statistics. Also completed final capstone:

- Built logging script to capture data from millions of simulations of Hearthstone
- Ran millions of Hearthstone AI simulations using EC2 instance in AWS
- Managed data in MySQL database
- Cleaned, merged, and aggregated data using pandas dataframes and R
- Fit Multinomial Naive Bayes classifier on data to predict win rate of each player

Hearthlytics | San Francisco, California | July 2015 - June 2016

Manager: Provided statistical analysis tools to help team perform better at tournaments. Supported players and team to gain exposure in the scene.

- Organized and managed several competitive tournaments between hundreds of players
- Recruited players and sponsors and hosted events
- Helped build logger designed to statistically analyze Hearthstone games

Discovia | San Francisco, California | November 2014 - July 2015

Search Analyst: Interviewed with consulting department to understand how best to use search tool in order to assist clients. Used SQL based search tool to gather, clean, and analyze data in order to make recommendations on how to move forward.

- Worked closely with consulting and product management to identify important questions and answer them with data
- Worked with incomplete data in order to clean it and present it to the client/product management team
- Recognized inefficiencies with clients' search terms and assisted building terms and queries to search upon